

C L A I M S

1. Use of a Fischer-Tropsch derived fuel in a yellow flame burner.

2. Use according to claim 1, wherein the lambda is between 1 and 1.6

5 3. Use according to claim 2, wherein the lambda is between 1.05 and 1.2.

4. Use according to any one of claims 1-3, wherein the flue gases as obtained by said use are used to heat water by means of indirect heat exchange in a boiler.

10 5. Use according to any one of claims 1-3, wherein the flue gases as obtained by said use are used to directly heat a space.

6. Use according to any one of claims 1-5, wherein the Fischer-Tropsch derived fuel boils for more than 90 wt%  
15 between 160 and 400 °C.

7. Use according to claim 6, wherein the Fischer-Tropsch derived fuel boils for more than 90 wt% between 160 and 370 °C.

8. Use according to any one of claims 1-7, wherein the  
20 Fischer-Tropsch derived fuel comprises a Fischer-Tropsch product which contains more than 80 wt% of iso and normal paraffins, less than 1 wt% aromatics, less than 5 ppm sulphur and less than 1 ppm nitrogen and wherein the density of the Fischer-Tropsch derived product is  
25 between 0.65 and 0.8 g/cm<sup>3</sup> at 15 °C.

9. Use according to any one of claims 1-8, wherein the Fischer-Tropsch derived fuel comprises more than 80 wt% of a Fischer-Tropsch product.

10. Use according to claim 9, wherein the Fischer-Tropsch derived fuel comprises a mineral oil fraction and/or a non-mineral oil fraction.

5 11. Use according to any one of claims 1-10, wherein more than 3 starts per hour are made with the yellow flame burner.

12. Use according to any one of claims 1-11, wherein the Fischer-Tropsch derived fuel comprises one or more additives.

10 13. Use according to claim 12, wherein the Fischer-Tropsch derived fuel comprises an odour marker.

14. Use according to any one of claims 12-13, wherein the Fischer-Tropsch derived fuel comprises a colour marker.

15 15. Use according to any one of claims 12-14, wherein an additive is present which changes the colour of the flame such that is detectable by a yellow flame detector.

16. Use according to any one of claim 1-14, wherein a blue flame detector is used to detect the yellow flame burner flame.

20 17. Use according to claim 16, wherein an ionisation type flame detector is used to detect the flame of the yellow flame burner and wherein the fuel does not contain a metal-based combustion improver.